

Mathematische Zeitschrift

Band 194 · 1987

Herausgegeben von / Edited by

W. P. Barth, Erlangen

E. Becker, Dortmund

K. Diederich, Wuppertal

G. Faltings, Princeton

H. Heyer, Tübingen

W. Klingenberg, Bonn

C. C. Moore, Berkeley

H. H. Schaefer, Tübingen

L. Smith, Göttingen

W. v. Wahl, Bayreuth

Wissenschaftlicher Beirat / Advisory Board

T. tom Dieck, Göttingen · B. Eckmann, Zürich

E. Heinz, Göttingen · J. Herzog, Essen

K. H. Hofmann, Darmstadt · A. Pfluger, Zürich

H. Salzmann, Tübingen · K. Zeller, Tübingen



Springer International

"*Mathematische Zeitschrift*" was founded in 1918 and edited by *L. Lichtenstein* in cooperation with *K. Knopp*, *E. Schmidt* and *I. Schur*; after *Lichtenstein's* death, 1933, it was edited by *K. Knopp*. The Editorial Committee was increased to include *E. Kamke* and *F.K. Schmidt* in 1933, *R. Nevanlinna* in 1936 and *H. Wielandt* in 1950. The latter became Managing Editor in 1952. He was succeeded in 1973 by *H. Salzmann* and 1977 by *H. Heyer*. As of 1984 *W.P. Barth* and *W. v. Wahl* are the managing editors.

Die "*Mathematische Zeitschrift*" wurde im Jahre 1918 von *L. Lichtenstein* unter der Mitwirkung von *K. Knopp*, *E. Schmidt* und *I. Schur* gegründet und herausgegeben. Nach dem Tode *Lichtensteins* übernahm *K. Knopp* 1933 die Herausgabe. Die Schriftleitung ergänzte sich 1933 durch *E. Kamke* und *F.K. Schmidt*, 1936 durch *R. Nevanlinna* und 1950 durch *H. Wielandt*, der 1952 die Herausgabe übernahm. 1973 ging die Federführung an *H. Salzmann* und 1977 an *H. Heyer* über. Seit 1984 sind *W.P. Barth* und *W. v. Wahl* geschäftsführende Herausgeber.

Manuscripts may be sent to / Manuskripte nehmen entgegen:

W.P. Barth, Mathematisches Institut der Universität, Bismarckstr. 1½, D-8520 Erlangen, Federal Republic of Germany

E. Becker, FB Mathematik, Universität Dortmund, Postfach 50 05 00, D-4600 Dortmund 50, Federal Republic of Germany

K. Diederich, Gesamthochschule, Fachbereich 7, Mathematik, Gaußstr. 20, D-5600 Wuppertal 1, Federal Republic of Germany

G. Faltings, University of Princeton, Dept. of Mathematics, Fine Hall - Washington Road, Princeton, New Jersey 08544, USA

H. Heyer, Mathematisches Institut der Universität, Auf der Morgenstelle 10, D-7400 Tübingen, Federal Republic of Germany

W. Kilgberg, Mathematisches Institut der Universität, Wegelerstr. 10, D-5300 Bonn, Federal Republic of Germany

C.C. Moore, Department of Mathematics, University of California, Berkeley, CA 94720, USA

H.H. Schaefer, Mathematisches Institut der Universität, Auf der Morgenstelle 10, D-7400 Tübingen, Federal Republic of Germany

L. Smith, Mathematisches Institut der Universität, Bunsenstr. 3-5, D-3400 Göttingen, Federal Republic of Germany

W. v. Wahl, Mathematisches Institut der Universität, Postfach 10 12 51, D-8580 Bayreuth, Federal Republic of Germany

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher (society); and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$0.20 per page, or a minimum of US \$1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0025-5874, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Other regulations: Authors publishing in this journal can, under certain conditions, benefit from library and photocopy fees collected by VG WORT. Authors of German nationality and those resident in the Federal Republic of Germany or Berlin (West), as well as citizens of Austria, Switzerland and member countries of the European Community, may apply to Verwertungsgesellschaft WORT, Abteilung Wissenschaft, Goethestraße 49, D-8000 München 2, for detailed information.

Springer-Verlag Berlin Heidelberg New York Tokyo
Printers: Universitätsdruckerei H. Stürtz AG, D-8700 Würzburg
© Springer-Verlag, Berlin Heidelberg 1987
Springer-Verlag GmbH & Co. KG, 1000 Berlin 33
Printed in Germany

Inhalt/Contents

Ajupov, S.A.: Traces on JW -Algebras and Enveloping W^* -Algebras . . .	15
Alonso, M.E., Roy, M.F.: Real Strict Localizations	429
Andersen, H.H.: Jantzen's Filtrations of Weyl Modules	127
Bennett, G.: Sequence Spaces with Small β -Duals	321
Bertin, J., Elencwajg, G.: Configurations de coniques et surfaces avec un nombre de Picard maximum	245
Bhatwadekar, S.M.: A Note on Projective Modules Over Polynomial Rings	285
Buchdahl, N.P.: Stable 2-Bundles on Hirzebruch Surfaces	143
Bujalance, E., Etayo, J.J., Gamboa, J.M.: Topological Types of p -Hyperelliptic Real Algebraic Curves	275
Bushnell, C.J., Reiner, I.: Zeta Functions and Composition Factors for Arithmetic Orders	415
Ciliberto, C.: On the Hilbert Scheme of Curves of Maximal Genus in a Projective Space	351
Dang, T.B.: Extremal Maps of a Hilbert Space Equipped with a Natural Cone	95
Dar, A.: Intersection R -Torsion and Analytic Torsion for Pseudomanifolds	193
Demailly, J.P.: Mesures de Monge-Ampère et mesures pluriharmoniques	519
Deuring, P.: An Initial-Boundary-Value Problem for a Certain Density-Dependent Diffusion System	375
Edwards, C.M., Rüttimann, G.T.: Erratum to "On the Facial Structure of the Unit Ball of a GM -Space", Math. Z. 193 , 597-611 (1986) . . .	457
Elencwajg, G., s. Bertin, J.	245
Etayo, J.J., s. Bujalance, E., et al.	275
Fan, K.: Sharpened Forms of an Inequality of Von Neumann	7
Fleming, D.J.: Unconditional Toeplitz Sections in Sequence Spaces . . .	405
Foote, R.L.: Differential Geometry of Real Monge-Ampère Foliations	331
Fornæss, J.E., Zame, B.: Runge Exhaustions of Domains in \mathbb{C}^n	1
Friedman, Y., Russo, B.: Conditional Expectation and Bicontractive Projections on Jordan C^* -algebras and Their Generalizations	227
Gamboa, J.M., s. Bujalance, E., et al.	275
Ghoussoub, N., Johnson, W.B.: Factoring Operators Through Banach Lattices Not Containing $C(0, 1)$	153
Gilkey, P.B.: The eta Invariant $\bar{K}O$ of Lens Spaces	309
Globevnik, J.: Boundary Interpolation by Proper Holomorphic Maps . .	365

Hess, P.: An Isoperimetric Inequality for the Principal Eigenvalue of a Periodic-Parabolic Problem	121
Hickin, K.: Relatively Homogeneous Locally Finite Permutation Groups	495
Hinz, A.M.: Asymptotic Behavior of Solutions of $-\Delta v + qv = \lambda v$ and the Distance of λ to the Essential Spectrum	173
Jameson, G.J.O.: Relations Between Summing Norms of Mappings on l_∞^n	89
Johnson, W.B., s. Ghoussoub, N.	153
Kohnen, W.: p -adic Distributions Associated to Heegner Points on Modular Curves	443
Krejčí, P.: Periodic Solutions to a Parabolic Equation with Hysteresis	61
Krempa, J., Okniński, J.: Gelfand-Kirillov Dimensions of a Tensor Product	487
Kucharz, W.: Real Algebraic Curves as Complete Intersections	259
Langenbruch, M.: Power Series Spaces and Weighted Solution Spaces of Partial Differential Equations	71
Lannes, J., Zarati, S.: Sur les foncteurs dérivés de la déstabilisation	25
Liu, M.-C.: An Improved Bound for Prime Solutions of Some Ternary Equations	573
Natsume, T.: Euler Characteristic and the Class of Unit in K -theory	237
Nishishiraho, T.: The Convergence and Saturation of Iterations of Positive Linear Operators	397
Okniński, J., s. Krempa, J.	487
Ortega Aramburu, J.M ^a .: On Gleasons's Decomposition for $A^\infty(\bar{D})$	565
Petkov, V., Stojanov, L.: Spectrum of the Poincaré Map for Periodic Reflecting Rays in Generic Domains	505
Phillips, R.E., Schuur, S.E.: Partial Homogeneity in Locally Finite Groups	293
Radjabalipour, M.: An Extension of Putnam-Fuglede Theorem for Hypo-normal Operators	117
Reiner, I., s. Bushnell, C.J.	415
Roy, M.F., s. Alonso, M.E.	429
Russo, B., s. Friedman, Y.	227
Rüttimann, G.T., s. Edwards, C.M.	457
Sancho de Salas, J.B.: Semicontinuity for the Local Hilbert Function	217
Schuur, S.E., s. Phillips, R.E.	293
Stojanov, L., s. Petkov, V.	505
Ströhmer, G.: About the Resolvent of an Operator from Fluid Dynamics	183
Tignol, J.-P.: On the Corestriction of Central Simple Algebras	267
Tomassini, G.: Extension d'objets CR	471
Vogel, M.: Spectral Synthesis on Algebras of Orthogonal Polynomial Series	99

Vuorinen, M.: On Quasiregular Mappings and Domains with a Complete Conformal Metric	459
Zame, B., s. Fornæss, J.E.	1
Zarati, S., s. Lannes, J.	25
Zöschinger, H.: Summen von einfach-radikalvollen Moduln	585

Covered by *Zentralblatt für Mathematik* and *Current Mathematical Publication*